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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/826,148

04/05/2001

Claude Le Dantec

1807.1647

3994

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7590

09/22/2004

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EXAMINER

WILLIAMS, LAWRENCE B

ART UNIT

PAPER NUMBER

2634

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/826,148	LE DANTEC, CLAUDE	
	Examiner	Art Unit	
	Lawrence B Williams	2634	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 April 2001.
2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 1-6,8-13 and 15-34 is/are allowed.
6) ☐ Claim(s) _____ is/are rejected.
7) ☒ Claim(s) 7 and 14 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 05 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because: Examiner suggests applicant delete the last line: Fig. 5.

Correction is required. See MPEP § 608.01(b).

2. The disclosure is objected to because of the following informalities: Examiner suggest applicant rewrite line 20 beginning with “The duration...” on page 3 for clarification.

Appropriate correction is required.

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

1. Claim 7 is objected to because of the following informalities: Applicant's claim 7 recites the limitation “interleaving **the** parity sequence (\underline{v}_1). Examiner suggests applicant use “interleaving **a** parity sequence (\underline{v}_1) since this is the first introduction of the subject matter.

Appropriate correction is required.

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2. Claim 14 is objected to because of the following informalities: Applicant's claim 14 recites the limitation "interleaving **the** parity sequence (y_1). Examiner suggests applicant use "interleaving **a** parity sequence (y_1) since this is the first introduction of the subject matter. Appropriate correction is required.

3. Claim 27 is objected to because of the following informalities: Examiner suggests applicant spell out the acronym ATM in line 2. Appropriate correction is required.

4. Claim 28 is objected to because of the following informalities: Examiner suggests applicant spell out the acronym IP in line 2. Appropriate correction is required.

Allowable Subject Matter

5. Claims 1-6, 8-13, and 15-34 are allowed.

6. Claims 7 and 14 are objected to but would be allowable if rewritten to overcome the objections cited above.

7. The following is a statement of reasons for the indication of allowable subject matter: The instant application discloses a method and device for encoding a source sequence of

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symbols. A thorough search of prior art record has failed to disclose a method or device whereby “ a second operation is performed of division into sub-sequences and encoding, consisting of dividing said interleaved sequence (\underline{u}^*) into p_2 second sub-sequences (\underline{U}'_j), p_2 being a positive integer, and encoding each of said second sub-sequences (\underline{U}'_j) by means of a second circular convolutional encoding method (encoder, 20), at least one of the integers p_1 and p_2 being strictly greater than 1 and at least one of said first sub-sequences (\underline{U}_j), not being interleaved into any of said second sub-sequences (\underline{U}'_j) “ along with the remaining limitations of independent claims 1 and 8. greater than 1 and at least one of said first sub-sequences (\underline{U}_j), not being interleaved into any of said second sub-sequences (\underline{U}'_j) “ along with the remaining limitations of independent claims 1 and 8.

Conclusion

8. This application is in condition for allowance except for the following formal matters:
- a.) Specification objections as noted above.
 - b.) Claim objections as noted above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw
September 15, 2004



STEPHEN CHIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800